

Fig. 1a

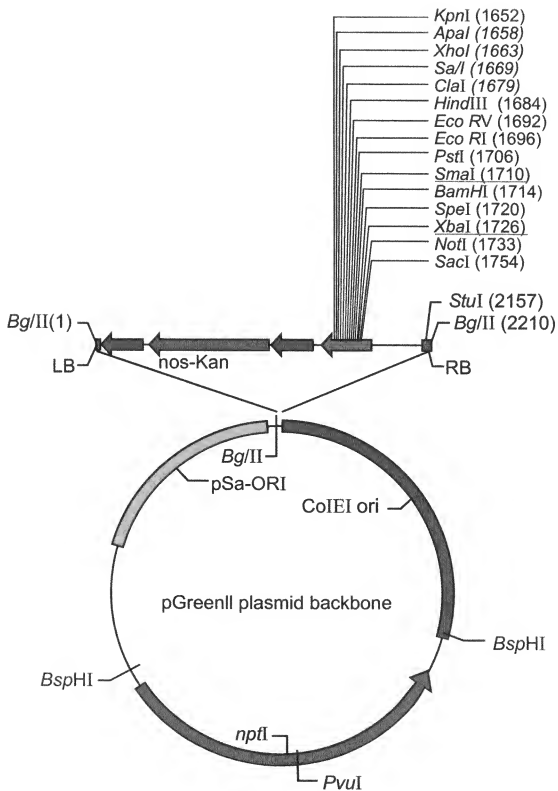
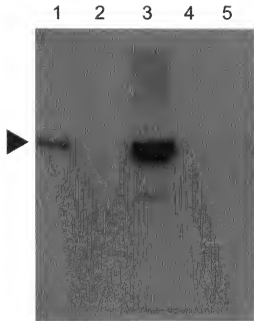


Fig. 1b

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**Fig. 2**

Transformed cells express rGCD. 1 gram calli tissue was homogenized and 15 microgram of soluble cell extract were run on SDS-PAGE. Expression of rGCD in selected transformed calli was tested by western blot analysis with specific anti hGCD antibodies. 1: standard cerezyme, 2: untransformed callus extract, 3-5: various selected transformed calli extracts .

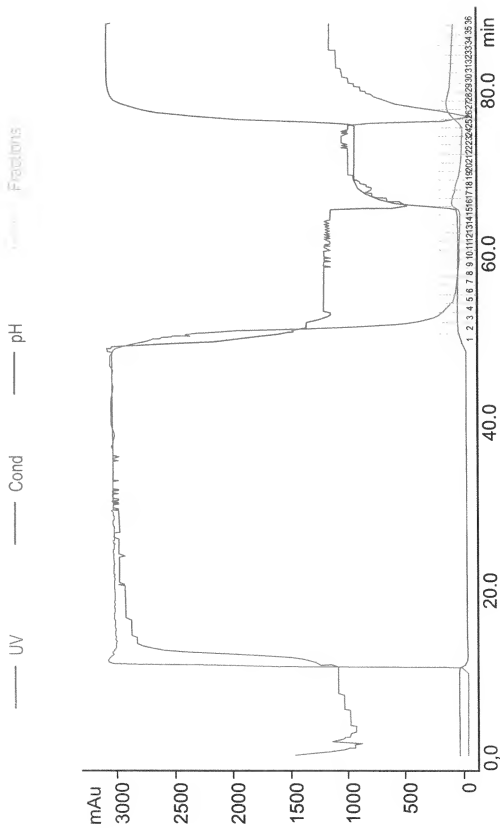
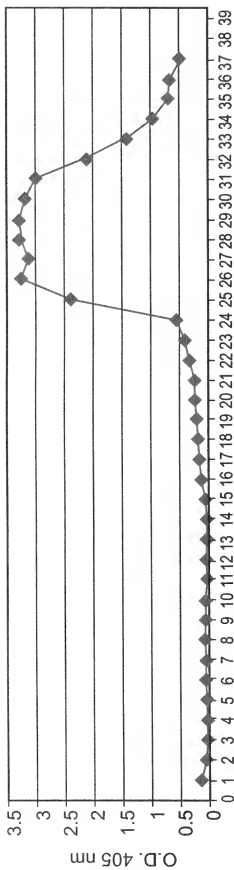


Fig. 3a



Fraction Fig. 3b

FT 1 3 5 8 12 15 16 17 19 23 25 26 27 29 33 MW

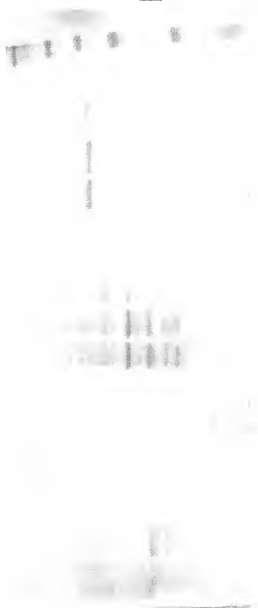


Fig. 3c

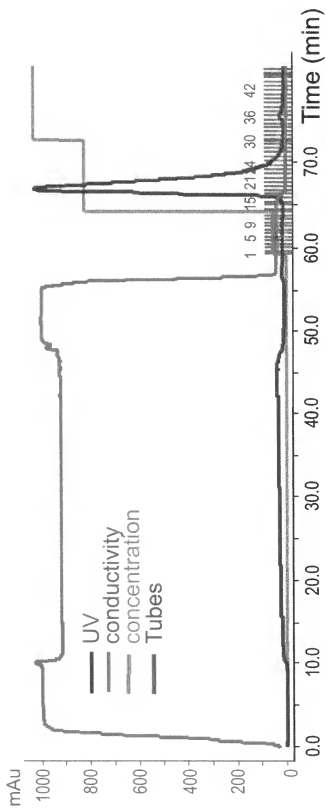


Fig. 3d

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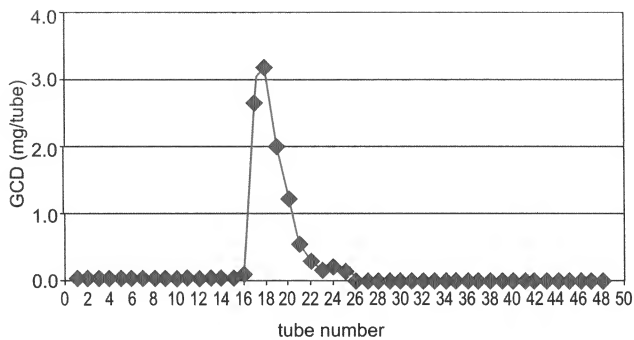


Fig. 3e

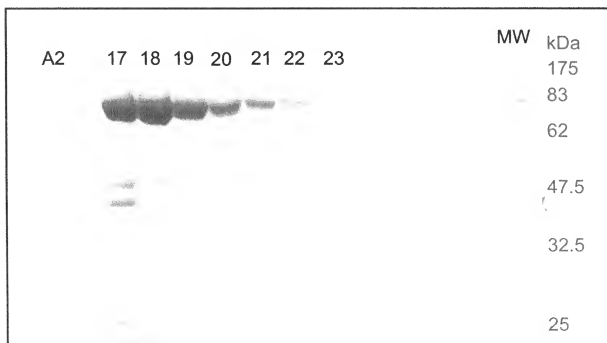


Fig. 3f

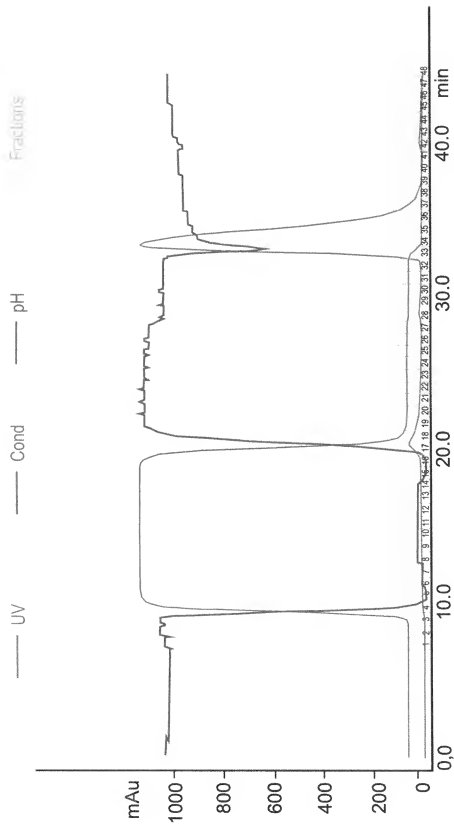
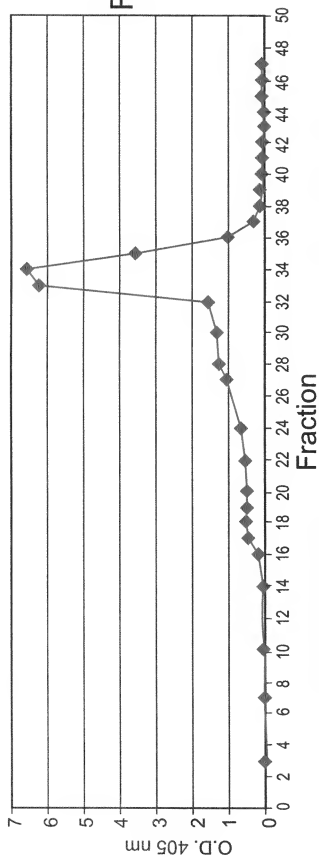


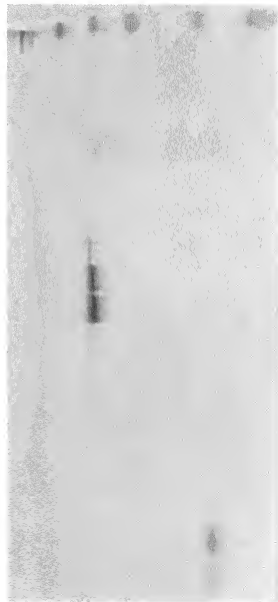
Fig. 4a





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17 18 20 24 27 28 30 32 33 34 35 36 37 40 Load MW



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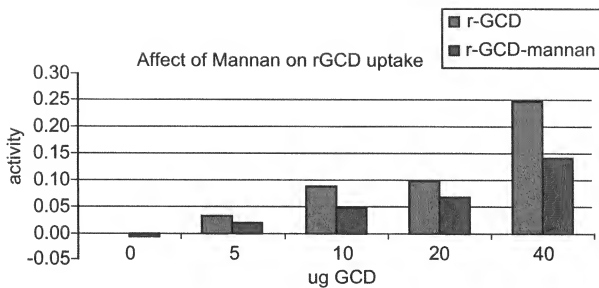


Fig. 5a

Uptake of GCD in peritoneal macrophages by mannose receptors  
 GCD (CB-mix1 = rGCD of the present invention) Vs. Cerezyme®

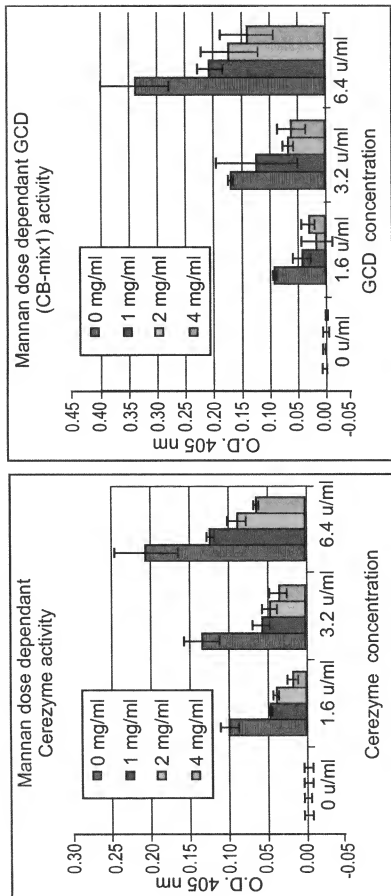


Fig. 5b

Uptake of GCD in peritoneal macrophages by mannose receptors  
GCD (CB-mix1 – rGCD of the present invention) Vs. Cerezyme®

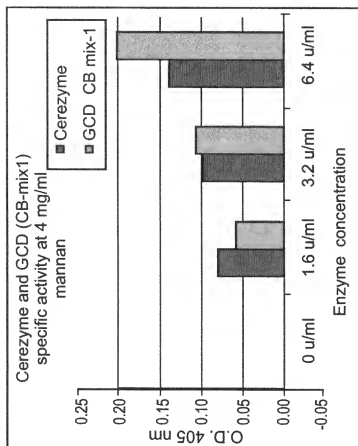
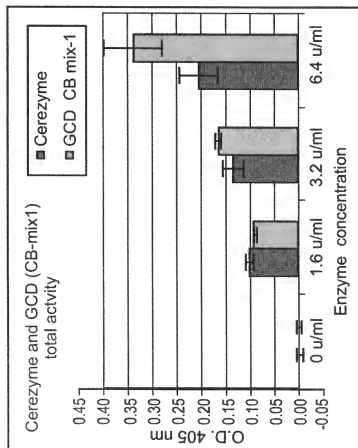


Fig. 5c

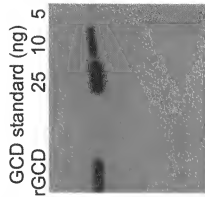
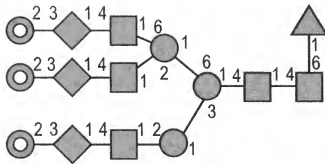
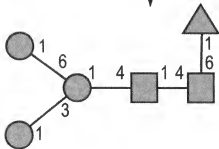


Fig. 5d

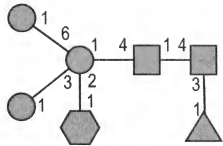


Major glycan structure  
from CHO cells

Glycan  
remodeling with  
glycosidases



Major remodeled glycan  
structure on Cerezyme



Major glycan structure  
from carrot cells:

Mannose terminal glycan



Fig. 6

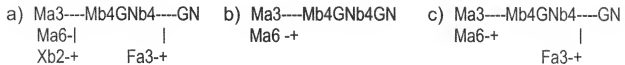
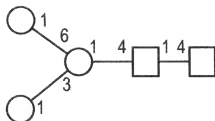
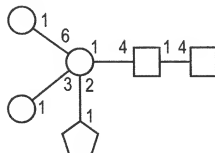


Fig. 7

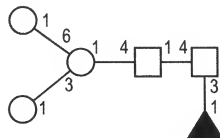
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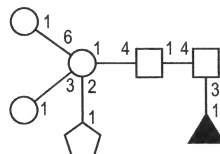
Theoretical monoisotopic mass for  $[M+Na]^+$  molecular ion = 1171.5



Theoretical monoisotopic mass for  $[M+Na]^+$  molecular ion = 1331.6

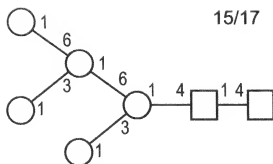


Theoretical monoisotopic mass for  $[M+Na]^+$  molecular ion = 1345.6

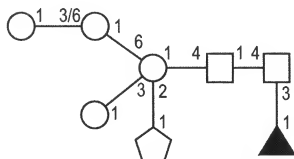


Theoretical monoisotopic mass for  $[M+Na]^+$  molecular ion = 1505.7

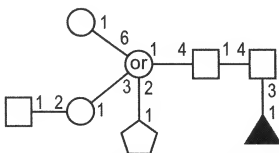
Fig. 8a



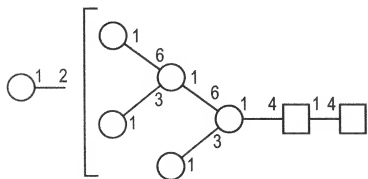
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Theoretical monoisotopic mass for  $[M+Na]^+$  molecular ion = 1709.7

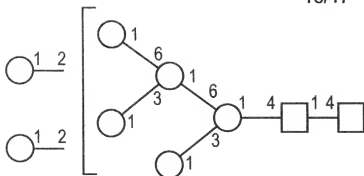


Theoretical monoisotopic mass for  $[M+Na]^+$  molecular ion = 1750.9

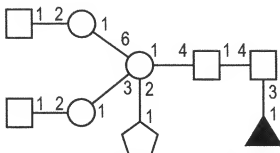


Theoretical monoisotopic mass for  $[M+Na]^+$  molecular ion = 1783.9

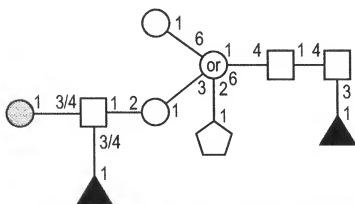
Fig. 8b



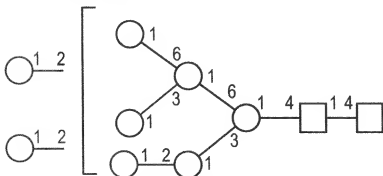
Theoretical monoisotopic mass for  $[M+Na]^+$  molecular ion = 1989.0



Theoretical monoisotopic mass for  $[M+Na]^+$  molecular ion = 1997.0



Theoretical monoisotopic mass for  $[M+Na]^+$  molecular ion = 2130.0



Theoretical monoisotopic mass for  $[M+Na]^+$  molecular ion = 2193.1

Fig. 8c



Key:






-  Fucose
-  Galactose
-  N-Acetylglucosamine
-  Mannose
-  Xylose

Fig. 8d